AMENDMENT OF SOLICIT	ATION/MODIF	ICATION OF CONTRACT		1. CONTRACT I	D CODE	PAG 1	GE OF 1	PAGES 3
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.			5. PROJEC	'		
0005	12-Apr-2004	W26GLG-4015-7954	N26GLG-4015-7954					
6. ISSUED BY CODE	W91236	7. ADMINISTERED BY (If other than item 6)		COD	Е			
USA ENGINEER DISTRICT, NORFOLK CONTRACTING OFFICE 803 FRONT STREET NORFOLK VA 23510-1096		See Item 6						
8. NAME AND ADDRESS OF CONTRACTOR	(No., Street, County, Sta	te and Zip Code)	Х	9A. AMENDME W91236-04-R-0	NT OF SC	LICITA	ATION	NO.
			x	9B. DATED (SE		l)		
			-+	10-Mar-2004 10A. MOD. OF 0	CONTRAC	T/ORD	ER NO	
			\dashv	10B. DATED (S	EE ITEM	13)		
CODE	FACILITY COD							
		APPLIES TO AMENDMENTS OF SOLICE	$\overline{}$		_			
X The above numbered solicitation is amended as set forth	in Item 14. The hour and date	specified for receipt of Offer	X	is extended,	is not ext	ended.		
or (c) By separate letter or telegram which includes a ref RECEIVED AT THE PLACE DESIGNATED FOR THI REJECTION OF YOUR OFFER. If by virtue of this am provided each telegram or letter makes reference to the s	erence to the solicitation and a E RECEIPT OF OFFERS PRI endment you desire to change olicitation and this amendmen	OR TO THE HOUR AND DATE SPECIFIED MAY an offer already submitted, such change may be made	OWLE Y RES de by	EDGMENT TO BE EULT IN telegram or letter,	bmitted;			
12. ACCOUNTING AND APPROPRIATION DA	TA (If required)							
		O MODIFICATIONS OF CONTRACTS/O						
A. THIS CHANGE ORDER IS ISSUED PURS CONTRACT ORDER NO. IN ITEM 10A.		CT/ORDER NO. AS DESCRIBED IN ITEI thority) THE CHANGES SET FORTH IN			E IN THE			
B. THE ABOVE NUMBERED CONTRACT/O office, appropriation date, etc.) SET FORTH					anges in pa	aying		
C. THIS SUPPLEMENTAL AGREEMENT IS	ENTERED INTO PURS	SUANT TO AUTHORITY OF:						
D. OTHER (Specify type of modification and at	uthority)							
E. IMPORTANT: Contractor is not,	is required to sig	n this document and return	copi	ies to the issuing	office.			
14. DESCRIPTION OF AMENDMENT/MODIFIC where feasible.)	CATION (Organized by	UCF section headings, including solicitation	on/co	ntract subject ma	tter			
Acid Waste Treatment, Part 1, Settling Basin pages:	, Radford Army Ammu	nition Plant, Radford, VA, is hereby mo	difie	d as follows on	the attach	ied		
Except as provided herein, all terms and conditions of the doci	iment referenced in Item 9A o	or 10A, as heretofore changed, remains unchanged an	ıd in f	ull force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or p		16A. NAME AND TITLE OF CON			R (Type or	print)		
		TEL:		EMAIL:				
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERI	CA		1	6C. DA	TE SIC	NED
	_	BY				12-Apr	-2004	
(Signature of person authorized to sign)		(Signature of Contracting Office	cer)			- · · · · ·		

EXCEPTION TO SF 30 APPROVED BY OIRM 11-84 STANDARD FORM 30 (Rev. 10-83) Prescribed by GSA

FAR (48 CFR) 53.243

30-105-04

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

CONTINUATION PAGE

- 1. Due Date for Receipt of proposals is hereby extended to **20 April 2004** no later p.m. than 2:00
- 2. SF 1442, Block 10 is corrected to read: NAICS CODE is 237990
- 3. <u>Section 00600</u>: Clause 52.219-1 Small Business Program Representations is hereby changed as follows:
 - (a) (1) NAICS Code for this acquisition is 237990 Other Heavy and Civil Engineering Construction
 - (2) The small business size standard is \$28.5 million.
- 4. Section 00800: Clause E4LC26 Small Business Standard for Dredging is hereby deleted.
- 5. Technical Specifications are changed in accordance with the following:
 - a) Plant Operating Contractor, ATK will remove existing sludge. The sludge is not hazardous. There is no underdrain system in the lagoon
 - b) During testing pf the basin, test water can be discharged into the river through the process stream diffuser structure when necessary, provided:
 - nothing has been introduced into the test water (whether purposely or not) that would require treatment prior to discharge.
 - The water meets PH criteria for discharge to the river.
 - c) The final test water can be left in the new basin following any repairs and successful completion of testing. The water will be discharged when normal process flow is introduced into the system by the plant operating contractor, ATK.
- 6. Settling Basin Boring Logs are provided as attachments to this amendment.

(End of Summary of Changes)

Hole No. 119DH-1 DIVISION INSTALLATION SHEET **DRILLING LOG** RADFORD ARMY AMMUNITION PLANT NAO OF 1 SHEETS 1. PROJECT 10. SIZE AND TYPE OF BIT 3 1/4" ID HSA HAZ SLUDGE HANDLING BASIN 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) RADFORD, VIRGINIA 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY **CME 55** FROEHLING & ROBERTSON 13. TOTAL NO. OF OVERBURDEN | DISTURBED UNDISTURBED 4. HOLE NO. (As shown on drawing title and SAMPLES TAKEN file number) 119DH-1 14. TOTAL NUMBER CORE BOXES 5. NAME OF DRILLER 15. ELEVATION GROUND WATER ROBERT BAKER COMPLETED STARTED 6. DIRECTION OF HOLE 16. DATE HOLE 11/17/2001 11/17/2001 **⊠** VERTICAL ☐ INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE 7. THICKNESS OF OVERBURDEN 18. TOTAL CORE RECOVERY FOR BORING % 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 9. TOTAL DEPTH OF HOLE 28.0 RANDALL C. BORN, P.E. BOX OR SAMPLE REMARKS CLASSIFICATION OF MATERIALS % CORE **ELEVATION** DEPTH LEGEND RECOV-(Drilling time, water loss, depth (Description) ERY weathering, etc., if significant) NO. a b C d g 1/2" to 2" size stone 1.0 sand, greenish-tan, dry to moist, medium to course (likely fill) Ē 10"/18" S-1 4-4-4 (N=8) 3.5 5.0 5.0 (SP), fine SAND with silt, brown, dry, little mica present 14"/18" S-2 2-3-3 (N=6) 8.5 10.0 18"/18" S-3 3-4-3 (N=7) 13.5 15.0 same as above, but wet 19.0 (SP), SAND, brown, wet 5-4 18-50/3"-Moderately weathered bedrock encountered. Hard drilling 19'-20', broke through. 18.5 Spoon refusal at 19' 20.0 Hard seam 22'-23' and 24'-25' 25.0 (SC), sandy CLAY, gray, moist to wet, severely weathered bedrock with mica. S-5 Sample from auger cuttings at 27' 26.5 Auger siezed up at 28' 28.0 28.0 Bottom of Hole at 28' water on rod at 13' water in auger at 28' Caved in at 11' after pulling augers

ENG FORM

1836 PREVIOUS EDITIONS ARE OBSOLETE AS IN

119D11- PROJECT HAZ SLUDGE HANDLING BASIN

119DH-1

Hole No. 119DH-6 DIVISION INSTALLATION SHEET **DRILLING LOG** NAO RADFORD ARMY AMMUNITION PLANT SHEETS 1. PROJECT 10. SIZE AND TYPE OF BIT 3 1/4" ID HSA HAZ SLUDGE HANDLING BASIN 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) RADFORD, VIRGINIA 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY **CME 55** FROEHLING & ROBERTSON 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED 4. HOLE NO. (As shown on drawing title and SAMPLES TAKEN 119DH-6 14. TOTAL NUMBER CORE BOXES 5. NAME OF DRILLER 15. ELEVATION GROUND WATER ROBERT BAKER 6. DIRECTION OF HOLE STARTED COMPLETED 16. DATE HOLE 11/18/2001 11/18/2001 **▼** VERTICAL INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE 7. THICKNESS OF OVERBURDEN 18. TOTAL CORE RECOVERY FOR BORING 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 9. TOTAL DEPTH OF HOLE 18.0 RANDALL C. BORN, P.E. % CORE **BOX OR** REMARKS CLASSIFICATION OF MATERIALS **ELEVATION** DEPTH LEGEND RECOV-SAMPLE (Drilling time, water loss, depth (Description) ERY NO. weathering, etc., if significant) а d e Brush and stones to 6" 1.0 (SM) Fine silty sand with mica, brown, dry to moist 12"/18" S-1 4-4-8 (N=12) 3.5 5.0 5.0 Note: Hard drilling on cobbles and (BLDRCBBL) Cobbles and Boulders with boulders 5' to 6.5'. Auger refusal at 6.5', Clayey sand matrix moved 10' to the east. Drilled fairly easily down to 5', auger refusal once same as above again. Moved 15' to the east to 8.0 approximate edge of gravel road. (SP-SM) Fine sand with silt and clay, mica, 4"/18" S-2 8-9-10 (N=19) brown, moist 8.5 Hard drilling through layers of stone 10.0 (SP-SM) Same as above, but fine to medium 2"/18" S-3 2-2-1 (N=3) sand with little clay 13.5 Hard drilling at 16', possible bedrock 15.0 Spoon bouncing at 18' (SP-SM) Same as above, but moist to wet (BEDROCK), Refusal at 18' Note: Tip of spoon and auger are dry. 18.0 Bottom of Hole at 18' **ENG FORM** PROJECT HOLE NO 1836 PREVIOUS EDITIONS ARE OBSOLETE. HAZ SLUDGE HANDLING BASIN **MAR 71** 119DH-6

	NG LOG		ISION NAO		INSTALLA RADF		MY AMN	MUNITION PLANT OF 1 SHEETS			
1. PROJECT HAZ SLUDGE HANDLING BASIN			RADFORD ARMY AMMUNITION PLANT OF 1 SHEETS 10. SIZE AND TYPE OF BIT 3 1/4" ID HSSA								
LOCATION (Coordinates o	r Station)	DASI	IN .	11. DATUM	I FOR ELEV	ATION SHO	OWN (TBM or MSL)			
RADFOR	D, VIRGII						S DESIGNA	TION OF DRILL			
3. DRILLING AGENCY FROEHLING & ROBERTSON			CME 55								
4. HOLE NO. (As shown on drawing title and			13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED SAMPLES TAKEN								
file number) 119DH-5			14. TOTAL NUMBER CORE BOXES								
5. NAME OF DRILLER ROBERT BAKER			15. ELEVATION GROUND WATER								
DIRECTION (OF HOLE				16. DATE HOLE STARTED COMPLETED						
∨ERTICA	AL I	NCLINED	-	DEG. FROM VERT.) E HOLE	11/18/2001 11/18/2001			
THICKNESS	OF OVERBU	RDEN			17. ELEVATION TOP OF HOLE 18. TOTAL CORE RECOVERY FOR BORING %						
DEPTH DRIL		OCK			19. GEOL		OVERTIO	R BORING %			
TOTAL DEPT	TH OF HOLE	٠.		5.5				LL C. BORN, P.E.			
ELEVATION	DEPTH b	L'EGEND c		CLASSIFICATION OF MATERIALS (Description)	5	% CORE RECOV- ERY e	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth weathering, etc., if significant)			
	1.0	1 1 1 1	Brush	& Stone to 6"	705-17	*		Drilled through stones and fill to 3.5'			
			(SP) F	ine to medium sand with silt, br	own, dry	E SECTION AND ADDRESS OF THE PERSON AND ADDR	0.0				
			to moi	st			1.5				
•	4.0										
	4.0	XU.	Cobble	es & Boulders, and sand from 4	' to 5.5'		S-1 3.5	10-18-24 (N=42) Auger Refusal at 4.5' moved 5' to the			
	5.5						5.0	west			
	-							Refusal at 5.5' moved 12' to the west Refusal at 5.5'			
	ակակակակակակակակա				in surf en						
								Note: The boring attempts were made o a "flat" shelf, built to the basin side of the			
							4	southerly berm and road. Estimated depth of fill is 8' to 10'. Top of shelf is 6'			
			Rotton	n of Hole at 5.5'				to 8' below berm.			
				al at 5.5'							
							144				
					M Pile						
					- No W						
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			1.5								
					116-1-11						
							Can't				
							27				
	三										
								HANDLING BASIN HOLE NO. 119DH-5,			

Hole No. 119DH-4 DIVISION INSTALLATION SHEET DRILLING LOG RADFORD ARMY AMMUNITION PLANT OF SHEETS NAO 1. PROJECT 3 1/4" ID HSA 10. SIZE AND TYPE OF BIT HAZ SLUDGE HANDLING BASIN 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) RADFORD, VIRGINIA 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY **CME 55** FROEHLING & ROBERTSON 13. TOTAL NO. OF OVERBURDEN UNDISTURBED DISTURBED SAMPLES TAKEN 4. HOLE NO. (As shown on drawing title and 119DH-4 14. TOTAL NUMBER CORE BOXES 5. NAME OF DRILLER 15. ELEVATION GROUND WATER ROBERT BAKER COMPLETED STARTED 6. DIRECTION OF HOLE 16. DATE HOLE 11/17/2001 11/17/2001 **⊠** VERTICAL INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE 7. THICKNESS OF OVERBURDEN % 18. TOTAL CORE RECOVERY FOR BORING 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST RANDALL C. BORN, P.E. 9. TOTAL DEPTH OF HOLE 12.5 BOX OR SAMPLE % CORE RECOV-REMARKS CLASSIFICATION OF MATERIALS **ELEVATION** DEPTH LEGEND (Drilling time, water loss, depth (Description) ERY NO. weathering, etc., if significant) d е 0.0 Clay with gravel and cobbles to 3' 14"/18" S-1 7-9-6 (N=15) Ξ 3.0 Auger Refusal at 2' offset 6' to the north 2.0 (SC-GC) Clay with gravel, little sand (fill), 3.5 mica, brown, moist 5.0 (SP) Fine sand with silt, brown, dry to moist (BLDRCBBL) Boulders and Cobbles (likely Rip-Rap fill) 8"/12" S-2 7-9-13 (N=22) pieces of stone in spoon at 10' Cobbles from 10' to 12' 11.0 12.5 Auger Refusal at 12.5' Bottom of Hole at 12.5' PROJECT
HAZ SLUDGE HANDLING BASIN HOLE NO. **ENG FORM**

MAR 71

1836

PREVIOUS EDITIONS ARE OBSOLETE.

119DH-4

Hole No. 119DH-3 DIVISION INSTALLATION SHEET **DRILLING LOG** NAO RADFORD ARMY AMMUNITION PLANT OF 1 SHEETS 1. PROJECT 3 1/4 " ID HSA 10. SIZE AND TYPE OF BIT HAZ SLUDGE HANDLING BASIN 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) RADFORD, VIRGINIA 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY CME 55 FROEHLING & ROBERTSON 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED 4. HOLE NO. (As shown on drawing title and SAMPLES TAKEN file number) 119DH-3 14. TOTAL NUMBER CORE BOXES 5. NAME OF DRILLER 15. ELEVATION GROUND WATER ROBERT BAKER 6. DIRECTION OF HOLE STARTED COMPLETED 16. DATE HOLE 11/17/2001 11/18/2001 ☐ INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE 7. THICKNESS OF OVERBURDEN 18. TOTAL CORE RECOVERY FOR BORING % 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 9. TOTAL DEPTH OF HOLE 20.0 RANDALL C. BORN, P.E. BOX OR % CORE REMARKS CLASSIFICATION OF MATERIALS **ELEVATION** DEPTH LEGEND RECOV-SAMPLE (Drilling time, water loss, depth (Description) **ERY** NO. weathering, etc., if significant) d e Gravel Road surface 1.0 (SC) Clayey fine sand with mica (fill), brown, 12"/18" S-1 5-7-8 (N=15) 3.5 Auger Refusal at 4.3', moved 6' to the 5.0 east (SP) Fine sand with little silt and mica, brown, moist 18"/18" S-2 4-4-6 (N=10) 8.5 10.0 (SP) same as above, except medium to fine 12"/18" S-3 3-4-6 (N=10) sand, saturated 13.5 15.0 (SP) medium sand S-4 At 18.5', sand ran up into auger, drove 20.0 18.5 spoon into column to collect sample, but 20.0 did not monitor blow counts Bottom of Hole at 20' water on rod at 12' **ENG FORM** PREVIOUS EDITIONS ARE OBSOLETE. **PROJECT** HOLE NO 1836 119DH-3 HAZ SLUDGE HANDLING BASIN **MAR 71**

Hole No. 119DH-2 DIVISION INSTALLATION SHEET **DRILLING LOG** RADFORD ARMY AMMUNITION PLANT NAO OF 1 SHEETS 1. PROJECT 3 1/4" ID HSA 10. SIZE AND TYPE OF BIT HAZ SLUDGE HANDLING BASIN 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) RADFORD, VIRGINIA 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY **CME 55** FROEHLING & ROBERTSON 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED SAMPLES TAKEN 4. HOLE NO. (As shown on drawing title and file number 119DH-2 14. TOTAL NUMBER CORE BOXES 5. NAME OF DRILLER 15. ELEVATION GROUND WATER ROBERT BAKER COMPLETED STARTED 6. DIRECTION OF HOLE 16. DATE HOLE 11/17/2001 11/17/2001 ☐ INCLINED DEG. FROM VERT 17. ELEVATION TOP OF HOLE 7. THICKNESS OF OVERBURDEN % 18. TOTAL CORE RECOVERY FOR BORING 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 9. TOTAL DEPTH OF HOLE 20.5 RANDALL C. BORN, P.E. REMARKS % CORE RECOV-**BOX OR** CLASSIFICATION OF MATERIALS (Drilling time, water loss, depth weathering, etc., if significant) **ELEVATION** DEPTH LEGEND SAMPLE (Description) NO. ERY b d 0.0 Stone road from surface to 15" (CL) Clay with gravel and sand, brownish-red, dry (fill) 8"/12" S-1 8-7-10/0" (N=17) 3:5 Auger refusal at 5', moved 6' to the east 5.0 5.0 (SP) Fine to medium sand with silt and mica, brown, dry 14"/18" S-2 4-5-8 (N=13) 8.5 10.0 Note: Clayey sand in auger cuttings between S-2 and S-3 18"/18" S-3 (SP) same as above, but wet 2-2-3 (N=5) 13.5 15.0 14"/18" 24-11-10 (N=21) S-4 (SP) course sand Note: S-4 collected from about 19' to 18.5 20.0 20.0 20.5' (ran up into auger when plug was (GW-SP) coarse sand and gravel pulled) Bottom of hole at 20.5' water on rod at 13' water at 17.5' inside auger sand and gravel at 18.5' inside auger ENG FORM PROJECT HOLE NO PREVIOUS EDITIONS ARE OBSOLETE. 1836

RAAP Hat. Sludge Basin Paint Ground (Ttuje ed) \$ 01-1 Ga. 1 DH- Sa (Stuked) DH- P OH-3 + Paintel 109 \$ \$ DH.9 a